



## TEP Integrated Resource Plan (IRP) Advisory Council

### Meeting Summary for May 30, 2019

#### Attendees:

- Mark Clark, Pima Council on Aging
- Nicole Fyffe, Pima County\*
- Andrea Gerlak, U of A
- Andrew Greenhill, City of Tucson\*
- Kevin Koch, TFS
- Gary Krivokapich, Davis Monthan AFB\*
- Rob Lamb, GLHN
- Mike Levine, Port of Tucson\*
- Caryn Massey, SWEEP\*
- Catalina Ross, Sierra Club\*
- Mike Toriello, Davis Monthan AFB
- David Welsh, Sun Corridor
- Ellen Zuckerman, SWEEP
- Cynthia Zwick, Wildfire

*\*Alternate*

*Note: This summary is intended to capture key points of discussion during the meeting. Summaries will be drafted by TEP and submitted for review to Advisory Council (AC) members, who can request corrections, clarifications or amendments. Our goal is create a high-level record of our conversations to support our resource planning process and provide observers with a way to follow the AC's progress. These summaries are not designed to provide complete, detailed descriptions of slides, reports or other meeting materials. AC discussions will be summarized without attribution.*

#### Welcome - Kevin Skinner, TEP

- Participants introduced themselves and discussed their experience with utility IRPs
- TEP led exercises designed to promote conversation within an atmosphere that respects different opinions

#### Integrated Planning Overview – Jeff Yockey, TEP Manager of Resource Planning (slides 4-7)

- No discussion

#### Advisory Council Overview – Kevin Skinner, TEP (slides 8-10)

- AC members met in small groups and discussed how planning happens in their respective organizations. Key information shared with all members included:
  - Typical planning horizons ranged from 1 to 10 years
  - Plans typically were reviewed and adjusted bi-monthly to annually
  - Circumstances are typically dynamic and constantly changing
    - The ability to adjust is preferable, but not always possible
  - Stakeholder input is important
    - Steering committees can be effective in securing stakeholder involvement

**Planning Under Uncertainty – Jeff Yockey, Manager of Resource Planning (slides 11-21)**

- TEP's load hasn't always matched its forecasts due to unforeseen events
- In response to a question, Yockey notes that TEP's forecast has changed several times to reflect adjusted timelines for development of the Rosemont mine
- AC members discussed some of the reasons for the rapid decrease in the cost of installing solar
  - Market demand was created through resource portfolio standards (like Arizona's)
  - The industry was able to scale to large production volumes, including silica production, and costs
  - The amount of labor required was reduced
- AC members met in small groups and discussed key uncertainties that they face in their planning, then followed with the key uncertainties that TEP should consider, including:
  - Weather/increasing temperature
  - Elections and other political changes
  - Natural gas prices
  - Population growth, particularly tied to water availability
  - Technology advancement (i.e. batteries)
  - Customer adoption of new technologies
  - Advances in scientific understanding
  - Affordability of resources
- In addition to the agenda items listed on slide 21, there was interest in the following topics
  - Load forecast
  - Customer behavior and how it may be affected by rate design
  - Distribution planning
  - Regionalization of utility operations (e.g., reserve sharing and Regional Transmission Organizations)
  - How a science-based GHG goal could be incorporated into utility plans
- The group tentatively set the recurring meeting time as the 3<sup>rd</sup> Thursday of each month from 10 a.m. to 12 p.m. (noon)